



## SEQUENCE LISTING

&lt;110&gt; NAKAMURA, Koji et al.

<120> METHOD OF DETECTING LIVER CANCER, DIAGNOSTIC FOR LIVER  
CANCER AND REMEDY FOR CANCER

&lt;130&gt; 0760-0355PUS1

&lt;140&gt; US 10/580,567

&lt;141&gt; 2006-05-26

&lt;150&gt; PCT/JP2004/017499

&lt;151&gt; 2004-11-25

&lt;160&gt; 10

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 1553

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (174)..(1322)

&lt;400&gt; 1

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agccggaccc gcgcccgcac cgctcccggg accgcgaccc cggccgcca gag atg 176  
Met  
1acc gcg acc gaa gcc ctc ctg cgc gtc ctc ttg ctc ctg ctg gct ttc 224  
Thr Ala Thr Glu Ala Leu Leu Arg Val Leu Leu Leu Leu Leu Ala Phe  
5 10 15ggc cac agc acc tat ggg gct gaa tgc ttc ccg gcc tgc aac ccc caa 272  
Gly His Ser Thr Tyr Gly Ala Glu Cys Phe Pro Ala Cys Asn Pro Gln  
20 25 30aat gga ttc tgc gag gat gac aat gtt tgc agg tgc cag cct ggc tgg 320  
Asn Gly Phe Cys Glu Asp Asp Asn Val Cys Arg Cys Gln Pro Gly Trp  
35 40 45cag ggt ccc ctt tgt gac cag tgc gtg acc tct ccc ggc tgc ctt cac 368  
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Gly Leu Cys Gly Glu Pro Gly Gln Cys Ile Cys Thr Asp Gly Trp Asp  
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Gly Glu Leu Cys Asp Arg Asp Val Arg Ala Cys Ser Ser Ala Pro Cys	
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gcc aac aac ggg acc tgc gtg agc ctg gac ggt ggc ctc tat gaa tgc	512
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tcc tgt gcc ccc ggg tac tcg gga aag gac tgc cag aaa aag gac ggg	560
Ser Cys Ala Pro Gly Tyr Ser Gly Lys Asp Cys Gln Lys Lys Asp Gly	
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ccc tgt gtg atc aac ggc tcc ccc tgc cag cac gga ggc acc tgc gtg	608
Pro Cys Val Ile Asn Gly Ser Pro Cys Gln His Gly Gly Thr Cys Val	
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Phe Ser Gly Asn Phe Cys Glu Ile Val Ala Asn Ser Cys Thr Pro Asn	
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Pro Cys Glu Asn Asp Gly Val Cys Thr Asp Ile Gly Gly Asp Phe Arg	
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Cys Arg Cys Pro Ala Gly Phe Ile Asp Lys Thr Cys Ser Arg Pro Val	
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Thr Asn Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Thr Cys Leu Gln	
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cac acc cag gtg agc tac gag tgt ctg tgc aag ccc gag ttc aca ggt	896
His Thr Gln Val Ser Tyr Glu Cys Leu Cys Lys Pro Glu Phe Thr Gly	
230 235 240	
ctc acc tgt gtc aag aag cgc gcg ctg agc ccc cag cag gtc acc cgt	944
Leu Thr Cys Val Lys Lys Arg Ala Leu Ser Pro Gln Gln Val Thr Arg	
245 250 255	
ctg ccc agc ggc tat ggg ctg gcc tac cgc ctg acc cct ggg gtg cac	992
Leu Pro Ser Gly Tyr Gly Leu Ala Tyr Arg Leu Thr Pro Gly Val His	
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Glu Leu Pro Val Gln Gln Pro Glu His Arg Ile Leu Lys Val Ser Met	
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aaa gag ctc aac aag aaa acc cct ctc ctc acc gag ggc cag gcc atc	1088
Lys Glu Leu Asn Lys Lys Thr Pro Leu Leu Thr Glu Gly Gln Ala Ile	
290 295 300 305	
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Cys	Phe	Thr	Ile	Leu	Gly	Val	Leu	Thr	Ser	Leu	Val	Val	Leu	Gly	Thr	
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gtg	ggt	atc	gtc	ttc	ctc	aac	aag	tgc	gag	acc	tgg	gtg	tcc	aac	ctg	1184
Val	Gly	Ile	Val	Phe	Leu	Asn	Lys	Cys	Glu	Thr	Trp	Val	Ser	Asn	Leu	
			325					330					335			
cgc	tac	aac	cac	atg	ctg	cgg	aag	aag	aac	ctg	ctg	ctt	cag	tac	aac	1232
Arg	Tyr	Asn	His	Met	Leu	Arg	Lys	Lys	Asn	Leu	Leu	Leu	Gln	Tyr	Asn	
		340					345					350				
agc	ggg	gag	gac	ctg	gcc	gtc	aac	atc	atc	ttc	ccc	gag	aag	atc	gac	1280
Ser	Gly	Glu	Asp	Leu	Ala	Val	Asn	Ile	Ile	Phe	Pro	Glu	Lys	Ile	Asp	
	355					360					365					
atg	acc	acc	ttc	agc	aag	gag	gcc	ggc	gac	gag	gag	atc	taa			1322
Met	Thr	Thr	Phe	Ser	Lys	Glu	Ala	Gly	Asp	Glu	Glu	Ile				
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			20					25					30			
Gln	Asn	Gly	Phe	Cys	Glu	Asp	Asp	Asn	Val	Cys	Arg	Cys	Gln	Pro	Gly	
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Trp	Gln	Gly	Pro	Leu	Cys	Asp	Gln	Cys	Val	Thr	Ser	Pro	Gly	Cys	Leu	
	50				55						60					
His	Gly	Leu	Cys	Gly	Glu	Pro	Gly	Gln	Cys	Ile	Cys	Thr	Asp	Gly	Trp	
65				70					75					80		
Asp	Gly	Glu	Leu	Cys	Asp	Arg	Asp	Val	Arg	Ala	Cys	Ser	Ser	Ala	Pro	
			85					90						95		

Cys Ala Asn Asn Gly Thr Cys Val Ser Leu Asp Gly Gly Leu Tyr Glu  
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Cys Ser Cys Ala Pro Gly Tyr Ser Gly Lys Asp Cys Gln Lys Lys Asp  
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Gly Pro Cys Val Ile Asn Gly Ser Pro Cys Gln His Gly Gly Thr Cys  
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Val Asp Asp Glu Gly Arg Ala Ser His Ala Ser Cys Leu Cys Pro Pro  
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Gly Phe Ser Gly Asn Phe Cys Glu Ile Val Ala Asn Ser Cys Thr Pro  
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Asn Pro Cys Glu Asn Asp Gly Val Cys Thr Asp Ile Gly Gly Asp Phe  
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Arg Cys Arg Cys Pro Ala Gly Phe Ile Asp Lys Thr Cys Ser Arg Pro  
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Val Thr Asn Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Thr Cys Leu  
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Gln His Thr Gln Val Ser Tyr Glu Cys Leu Cys Lys Pro Glu Phe Thr  
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Gly Leu Thr Cys Val Lys Lys Arg Ala Leu Ser Pro Gln Gln Val Thr  
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260 265 270

His Glu Leu Pro Val Gln Gln Pro Glu His Arg Ile Leu Lys Val Ser  
275 280 285

Met Lys Glu Leu Asn Lys Lys Thr Pro Leu Leu Thr Glu Gly Gln Ala  
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Ile Cys Phe Thr Ile Leu Gly Val Leu Thr Ser Leu Val Val Leu Gly  
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Thr Val Gly Ile Val Phe Leu Asn Lys Cys Glu Thr Trp Val Ser Asn  
325 330 335

Leu Arg Tyr Asn His Met Leu Arg Lys Lys Asn Leu Leu Leu Gln Tyr  
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